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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,454	02/26/2004	Sarvar Patel	29250-002013/US	4912
HARNESS D	7590 06/03/201 ICKEY & PIERCE, P.I	EXAMINER		
P.O. Box 8910			TOLENTINO, RODERICK	
Reston, VA 20	0195		ART UNIT	PAPER NUMBER
			2439	
			MAIL DATE	DELIVERY MODE
			06/03/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/786,454	PATEL ET AL.	
Examiner	Art Unit	
RODERICK TOLENTINO	2439	

	RODERICK TOLENTINO	2439	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DV. - Exensions of time may be available under the provisions of 37 OFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period to reply is specified above, the manusum statutory period ware and the state of the specified above. The manusum statutory period ware and the state of the specified above. The manusum statutory period war any reply received by the Office later than there omoting after the mailing earned patent term adjustment. See 37 OFR 1.794(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. hely filed the mailing date of this of D (35 U.S.C. § 133).	
Status			
N Responsive to communication(s) filed on 03/21 N This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		e merits is
Disposition of Claims			
4) ⊠ Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 7) □ Claim(s) 1-24 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine. 10) The drawing(s) filed on 26 February 2004 is/are Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	e: a)⊠ accepted or b)□ objecte drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau. * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachment(s)			
1) Notice of References Cited (PTO-892)	Interview Summary Patter No(s)/Mail Da		

	Notice of References Cited (PTO-892)	
2)	Notice of Draftsperson's Patent Drawing Paview (PTO-948)	
a	1	

3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

Interview Summary (PTO-413) Paper No(s)/Mail Date.
5) Notice of Informal Patent Application
6) Other:

Part of Paper No./Mail Date 20110526

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DETAILED ACTION

1. Claims 1 - 24 are pending.

In view of the Appeal Bried filed on 03/21/2011, PROSECUTION IS HEREBY REOPENED. A new grounds of rejection as been set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or.

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Edan Orgad/

Supervisory Patent Examiner, Art Unit 2439.

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Response to Arguments

Applicant's arguments with respect to claims 1 and 24 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. As per claim 5, limitation recites "wherein the second cryptosync changes between communications sessions" however, in claim 1 the second cryptosync lasts for multiple sessions thus saying that the cryptosync should not change between sessions. For purposes of examination it will be interpreted to be the second cryptosync has the ability of being changed or replaced.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- Claims 1, 4, 6, 7, 11 and 12 are are rejected under 35 U.S.C. 103(a) as being unpatentable over Meandzija et al. U.S. PG-Publication No. (2005/0086468) in view of Malcolm et al. U.S. PG-Publication No. (2004/0078334).
- 7. As per claims 1, Meandzija teaches the first cryptosync having a life limited to the communication session, the communication session being defined as a period of time a channel for communication exists between the two communication devices (Meandzija, Paragraph 0073, session certificate which is only valid for a single session) but fails to teach deriving, at a network element, a value of a first cryptosync for the communication session based on a value of a second cryptosync and the second cryptosync having a life extending over multiple communication sessions. However, in an analogous art Malcolm teaches deriving, at a network element, a value of a first cryptosync for the communication session based on a value of a second cryptosync (Malcolm, Paragraph 0145, certificate derived from root certificate) and the second cryptosync having a life extending over multiple communication sessions (Malcolm, Paragraph 0145, certificate derived from root certificate, the root certificate is being interpreted to be the second cryptosync which will last over multiple sessions since all the signed certificates will stem from the root).
- 8. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Malcolm's Information management system Meandzija's digital certificate related to the user terminal hardware in a wireless network because it

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offers the advantage of ensuring that the transmission of data by their staff is always carried out securely (Malcolm, Paragraph 0028).

- As per claim 4, Meandzija as modified teaches the second cryptosync is used for verifying message integrity by at least one of the two devices (Meandzija, Paragraph 0007, communications between user terminal and access points).
- 10. As per claim 6, Meandzija as modified teaches deriving step derives the first cryptosync as at least a portion of the second cryptosync (Malcolm, Paragraph 0145, certificate derived from root certificate).
- 11. As per claim 7, Meandzija as modified teaches the deriving step derives the first cryptosync as at least a portion of the second cryptosync and a fixed bit sequence (Malcolm, Paragraph 0145, certificate derived from root certificate).
- As per claim 11, Meandzija as modified teaches the deriving step derives a
 portion of the first cryptosync as the second cryptosync (Malcolm, Paragraph 0145,
 certificate derived from root certificate).
- 13. As per claim 12, Meandzija as modified teaches the deriving step derives a first portion of the first cryptosync as the second cryptosync and derives a second portion of the first cryptosync as a fixed bit sequence (Malcolm, Paragraph 0145, certificate derived from root certificate).
- Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meandzija et al. U.S. PG-Publication No. (2005/0086468) and Malcolm et al. U.S. PG-

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Publication No. (2004/0078334) in view of Burch et al. U.S. PG-Publication No. (2005/0172116).

- 15. As per claim 2, Meandzija fails to teach the second cryptosync is used for message encryption by at least one of the two devices. However in an analogous art Burch teaches the second cryptosync is used for message encryption by at least one of the two devices (Burch, Paragraphs 0004 and 0023, certificate encrypts communications).
- 16. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Burch's techniques for dynamically establishing and managing trust relationships with Meandzija's digital certificate related to the user terminal hardware in a wireless network because it offers the advantage of improving trust relationships (Burch, Paragraph 0008).
- 17. As per claim 3, Meandzija as modified teaches the second cryptosync is used for verifying message integrity by at least one of the two devices (Meandzija, Paragraph 0007, communications between user terminal and access points).

- 18. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over
- Meandzija et al. U.S. PG-Publication No. (2005/0086468) in view of Malcolm et al. U.S. PG-Publication No. (2004/0078334) and Somin et al. U.S. PG-Publication No. (2005/0177715)

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20. As per claim 5, Meandzija fails to teach the second cryptosync changes between communication sessions. However, in an analogous art Somin teaches the second cryptosync changes between communication sessions (Somin, Paragraph 0043, new root certificate needed).

- 21. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Somin's system for managing identities with Meandzija's digital certificate related to the user terminal hardware in a wireless network because it offers the advantage of effectively resolve the communications issues of addressing, identity verification, and trust extension (Somin, Paragraph 0007).
- Claims 8 10 and 13 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meandzija et al. U.S. PG-Publication No. (2005/0086468) in view of Malcolm et al. U.S. PG-Publication No. (2004/0078334) in further view of Rezaiifar et al. U.S. Patent No. (6,980,658).
- 23. As per claim 8, Meandzija fails to teach the deriving step derives most significant bits of the first cryptosync as the portion of the second cryptosync and derives least significant bits of the first cryptosync as the fixed bit sequence. However, in an analogous art Rezaiifat teaches the deriving step derives most significant bits of the first cryptosync as the portion of the second cryptosync and derives least significant bits of the first cryptosync as the fixed bit sequence (Rezaiifar, Col. 4 Lines 46 62, bit sequence).

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24. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art, to use Rezaiifar's method and apparatus for encrypting transmissions in a communication system with Meandzija's digital certificate related to the user terminal hardware in a wireless network because it offers the advantage of maintaining encryption protocols to prevent the disclosure of communications between parties (Rezaiifar, Col. 1 Lines 66 – 67 and Col. 2 Lines 1 – 2).

- 25. As per claim 9, Meandzija as modified teaches the fixed bit sequence is a string of 0s (Rezaiifar, Col. 9 Lines 11 22, EID value of Zero).
- 26. As per claim 10, Meandzija as modified teaches the deriving step derives a 32 most significant bits of the first cryptosync as the second cryptosync and derives a 32 least significant bits of the first cryptosync as a string of 0s (Rezaiifar, Col. 9 Lines 11 22, EID value of Zero).
- As per claim 13, Meandzija as modified teaches the fixed bit sequence is a string of 0s (Rezaiifar, Col. 9 Lines 11 – 22. EID value of Zero).
- 28. As per claim 14, Meandzija as modified teaches the deriving step comprises: performing a pseudo-random function on the second cryptosync; and generating the first cryptosync from output of the pseudo-random function (Rezaiifar, Col. 8 Lines 15 21, randomly chosen).
- 29. As per claim 15, Meandzija as modified teaches the generating step generates the first cryptosync as the output of the pseudo-random function (Rezaiifar, Col. 8 Lines 15 – 21, randomly chosen).

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 As per claim 16, Meandzija as modified teaches the deriving step is performed at a base station (Rezaiifar, Col. 3 Lines 36 – 45, mobile devices and base stations).

- As per claim 17, Meandzija as modified teaches the deriving step is performed at a mobile station (Rezaiifar, Col. 3 Lines 36 – 45, mobile devices and base stations).
- 32. As per claim 18, Meandzija as modified teaches encrypting a frame of information to send from the at least one of the two devices using the first cryptosync (Rezaiifar, Col. 2 Lines 19 23, encryption).
- As per claim 19, Meandzija as modified teaches the frame of information is a radio link protocol, RLP, frame (Rezaiifar, Col. 6 Lines 45 – 56, RLP frames).
- As per claim 20, Meandzija as modified teaches incrementing the first cryptosync after the encrypting step (Rezaiifar, Col. 2 Lines 38 - 48, incrementing).
- 35. As per claim 21, Meandzija as modified teaches decrypting a frame of information received at the at least one of the two devices using the first cryptosync (Rezaiifar, Col. 5 Lines 56 67, decryption).
- As per claim 22, Meandzija as modified teaches the frame of information is a radio link protocol. RLP, frame (Rezaiifar, Col. 6 Lines 45 – 56, RLP frames).
- As per claim 23, Meandzija as modified teaches incrementing the first cryptosync after the decrypting step (Rezaiifar, Col. 2 Lines 38 – 48, incrementing).
- 38. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over

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 Meandzija et al. U.S. PG-Publication No. (2005/0086468) in view of Malcolm et al. U.S. PG-Publication No. (2004/0078334) and Burch et al. U.S. PG-Publication No. (2005/0172116).

- 40 As per claim 24. Meandzija teaches the first cryptosync having a life limited to the communication session, the communication session being defined as a period of time a channel for communication exists between the two communication devices (Meandzija, Paragraph 0073, session certificate which is only valid for a single session) but fails to teach deriving, at a network element, a value of a first cryptosync for the communication session based on a value of a second cryptosync and the second cryptosync having a life extending over multiple communication sessions and [cryptosync] used to encrypt further communication between the two devices. However, in an analogous art Malcolm teaches deriving, at a network element, a value of a first cryptosync for the communication session based on a value of a second cryptosync (Malcolm, Paragraph 0145, certificate derived from root certificate) and the second cryptosync having a life extending over multiple communication sessions (Malcolm, Paragraph 0145, certificate derived from root certificate, the root certificate is being interpreted to be the second cryptosync which will last over multiple sessions since all the signed certificates will stem from the root) and Burch teaches [cryptosync] used to encrypt further communication between the two devices (Burch, Paragraphs 0004 and 0023, certificate encrypts communications).
- 41. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Malcolm's Information management system Meandzija's

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digital certificate related to the user terminal hardware in a wireless network because it offers the advantage of ensuring that the transmission of data by their staff is always carried out securely (Malcolm, Paragraph 0028).

42. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Burch's techniques for dynamically establishing and managing trust relationships with Meandzija's digital certificate related to the user terminal hardware in a wireless network because it offers the advantage of improving trust relationships (Burch, Paragraph 0008).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RODERICK TOLENTINO whose telephone number is (571)272-2661. The examiner can normally be reached on Monday - Friday 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on (571) 272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roderick Tolentino Examiner Art Unit 2439

Roderick Tolentino /R. T./ Examiner, Art Unit 2439

/Edan Orgad/ Supervisory Patent Examiner, Art Unit 2439